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6. (Amended) A machine for shaping a blank to create a filter lens to be included in a clip-on accessory having a pair of filter lenses which when the accessory is hitched onto the frame of a pair of eyeglasses having a pair of optical lenses mounted in half sections of the frame, then lie in registration with these half sections, said frame having a predetermined geometry that is matched by the geometry of the filter lenses, said machine comprising:

at least one rotary worktable to support the blank to be shaped, and a first motor for driving the worktable;

a drill bit unit provided with a rotatable drill bit;

an elevator supporting said drill bit unit and shiftable along a vertical axis to raise or lower the drill bit with respect to the blank, and a second motor for driving the elevator;

a carriage carrying said elevator and shiftable along a horizontal axis to move the drill bit back and forth with respect to said blank, said carriage being driven by a third motor; and

a processor to coordinate the operation of the first, second and third motors to cause said drill bit to shape the blank to form a filter lens of the desired geometry.

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7. (Amended) The machine as set forth in Claim 6, in which said first, second and third motors are stepping motors each powered by a train of dc pulses, the polarity of which determines the extent and direction of movement.

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8. (Amended) The machine as set forth in Claim 7, in which said processor controls the stepping motors by varying the number of pulses in the train and their polarity.

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9. (Amended) The machine as set forth in Claim 8, in which the drill bit drills holes in said blank to receive plugs of a clip for anchoring the clip on the filter lens so that the accessory can be hitched onto the eyeglasses.

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10. (Amended) The machine as set forth in Claim 9, in which the drill bit unit is driven to rotate continuously by a dc motor.

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11. (Amended) The machine as set forth in Claim ⁵~~10~~, in which the drill bit unit is self-sufficient and can be decoupled ^{from} ~~for~~ its drive motor.

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12. (Amended) The machine as set forth in Claim ¹~~6~~, in which digitally stored in a database of the processor is digital data regarding the predetermined geometry of the eyeglasses, from which data the processor controls the motors to produce a filter lens having a matching geometry.

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13. (Amended) The machine as set forth in Claim ⁷~~12~~, further including an electronic scanner to scan the frame of the eyeglasses to which the clip-on is to be hitched, the scanner supplying the processor with a digital image of the frame from which the data stored in the database is obtained.

^{Sub B2}
14. (Amended) The machine as set forth in Claim 6, having a pair of worktables on each of which a blank is supported so as to provide a pair of filter lenses for the accessory.

15. (Amended) The machine as set forth in Claim 14, in which each worktable is driven by said first motor through a shaft, further including means to tension said shaft to maintain the worktable at a set position.

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16. (Amended) The machine as set forth in Claim ¹⁰~~15~~, in which the tension means is provided by a spiral spring surrounding said shaft, one end of the spring being attached to the shaft, the other end to a fixed body.

[Please add new claims 17-29:]

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17. (New) The machine as set forth in Claim ¹~~6~~, adapted to perform drilling, milling, cutting, ^{notching} ~~matching~~ and engraving operations by means of the same drill bit.

^{A2B Sub B3}
18. (New) A machine for shaping a blank to create a pair of lenses to be attached onto a pair of eyeglasses having a predetermined geometry, said machine comprising:

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[at least one rotary worktable to support the blank to be shaped, and a first motor for driving the worktable;

a drill bit unit provided with a rotatable drill bit;

an elevator supporting said drill bit unit and shiftable along a vertical axis to raise or lower the drill bit with respect to the blank, and a second motor for driving the elevator;

a carriage carrying said elevator and shiftable along a horizontal axis to move the drill bit back and forth with respect to said blank, said carriage being driven by a third motor; and

a processor to coordinate the operation of the first, second and third motors to cause said drill bit to shape the blank to form a lens of the desired geometry.

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~~19~~. (New) The machine as set forth in Claim ¹³~~18~~, in which said first, second and third motors are stepping motors each powered by a train of dc pulses, the polarity of which determines the extent and direction of movement.

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~~20~~. (New) The machine as set forth in Claim ¹³~~18~~, in which said processor controls the stepping motors by varying the number of pulses in the train and their polarity.

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~~21~~. (New) The machine as set forth in Claim ¹³~~18~~, in which the drill bit unit is driven to rotate continuously by a motor.

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~~22~~. (New) The machine as set forth in Claim ¹⁹~~21~~, in which the drill bit unit is self-sufficient and can be decoupled ^{from} ~~for~~ its drive motor.

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~~23~~. (New) The machine as set forth in Claim ¹³~~18~~, in which digitally stored in a database of a computer is digital data regarding the predetermined geometry of the ^{eyeglasses} ~~frame~~, from which data the computer controls the motors to produce a lens having a matching geometry.

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~~24.~~ (New) The machine as set forth in Claim ¹⁴~~19~~, having a pair of worktables on each of which a blank is supported so as to provide a pair of lenses.

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~~28.~~ (New) The machine as set forth in Claim ¹⁵~~24~~, in which each worktable is driven by said first motor through a shaft, further including means to tension said shaft to maintain the worktable at a set position.

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~~26.~~ (New) The machine as set forth in Claim ¹⁶~~25~~, in which the tension means is provided by a spiral spring surrounding said shaft one end of the spring being attached to the shaft the other end to a fixed body.

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~~27.~~ (New) The machine as set forth in Claim ¹³~~18~~, adapted to perform drilling, milling cutting, ^{notching}~~matching~~ and engraving operations by means of the same drill bit.